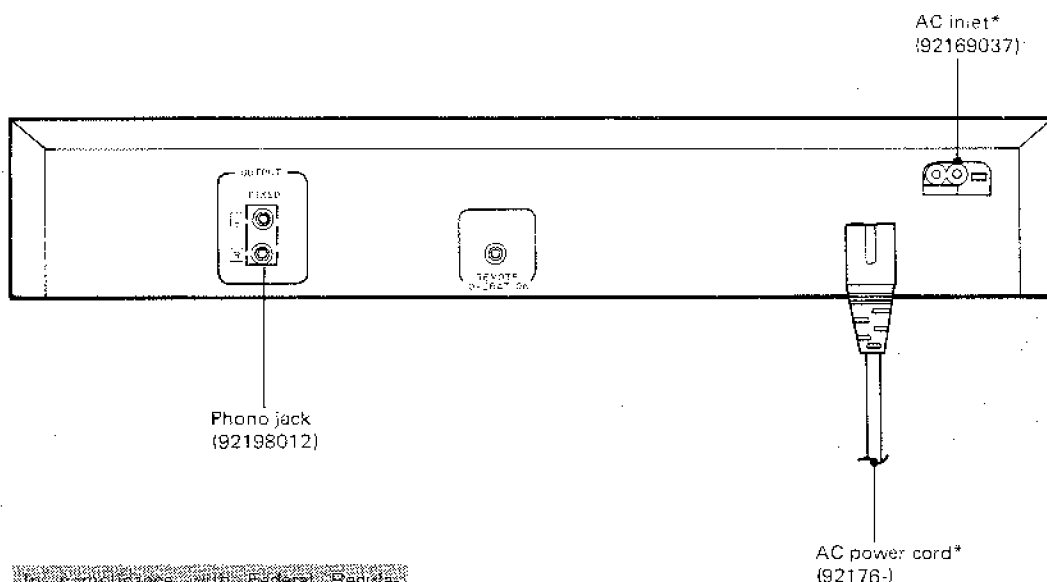
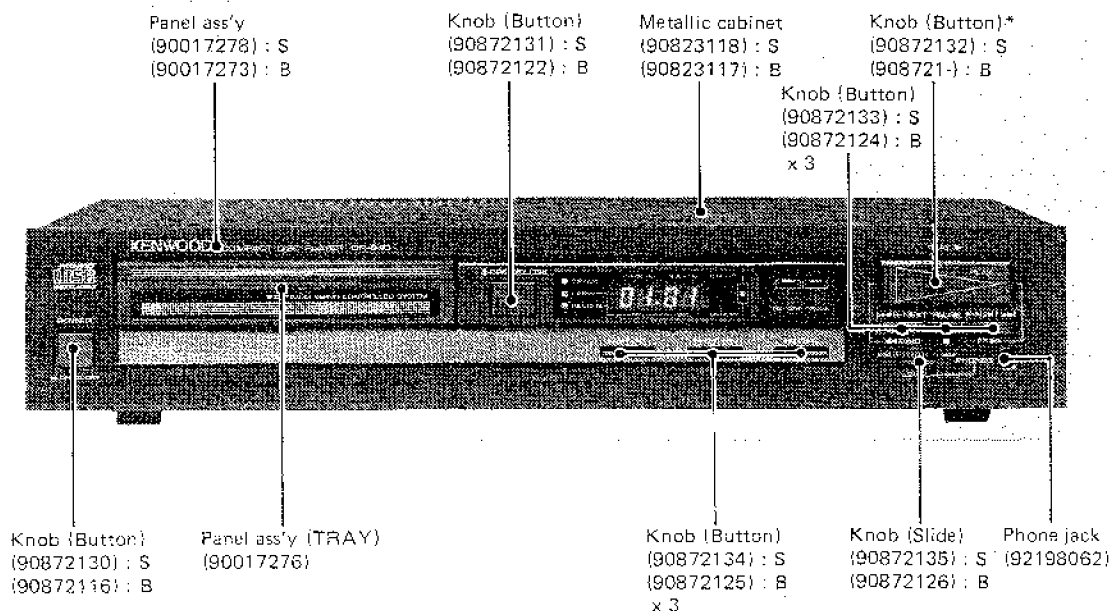


KENWOOD

DP-840

COMPACT DISK PLAYER



In compliance with Federal Regulations, following are reproductions of labels on or inside the product relating to laser product safety:

TRIO-KENWOOD Corp. certifies this equipment conforms to DILIS Regulations No. 2 (CFR 1040.10, Chapter 1, Subchapter J).

DANGER : Laser radiation when open and interlock defeated.

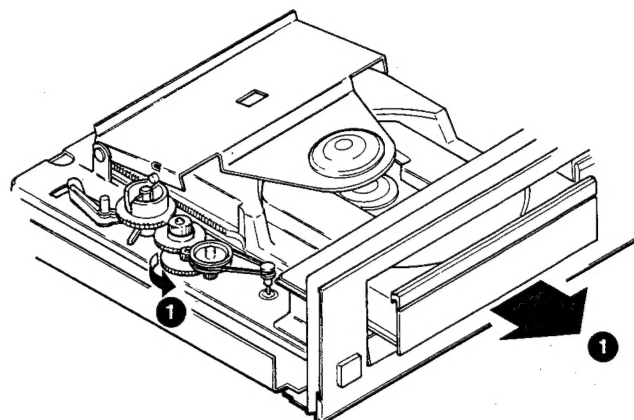
AVOID DIRECT EXPOSURE TO BEAM

* Refer to parts list on page 8.
Photo is DP-840 (Black version).
S : Silver version.
B : Black version

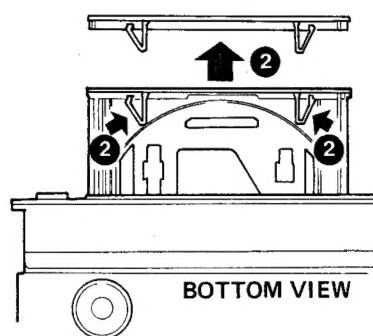
DISASSEMBLY FOR REPAIR

DISASSEMBLY FOR REPAIR

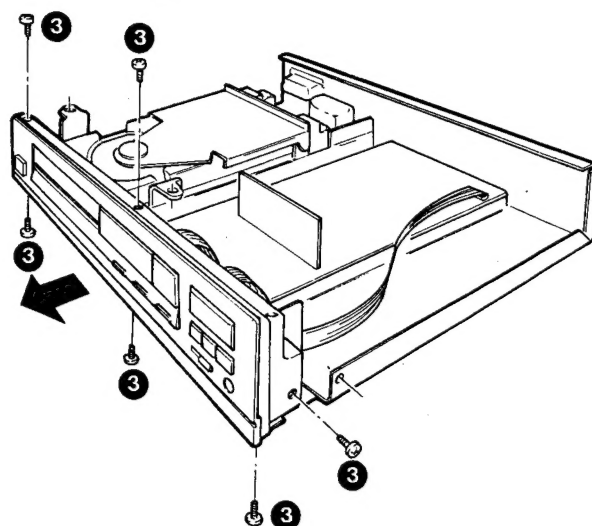
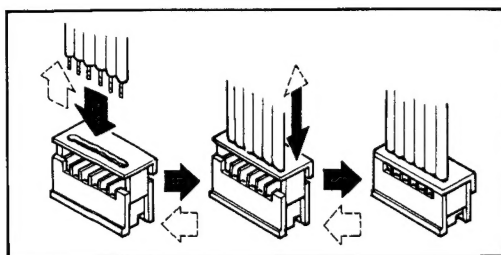
1. Remove the metallic cabinet.
2. Turn the gear, by hand, towards arrow until the tray go out the unit (**1**).



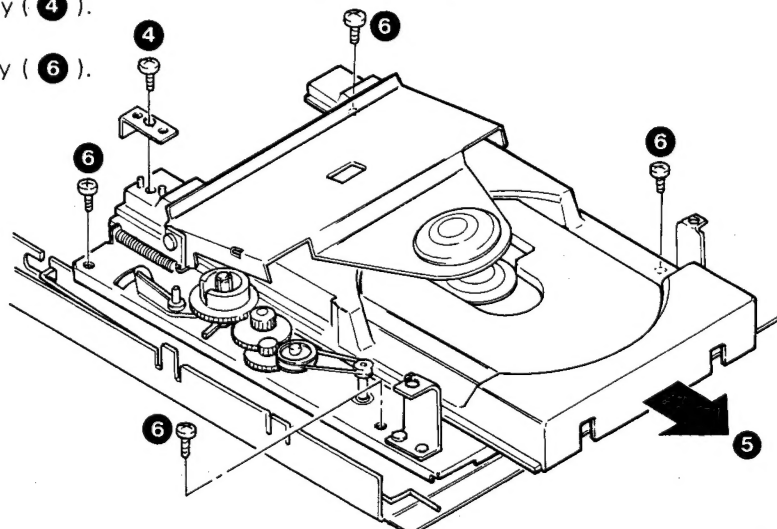
3. As pushing the projection of the tray panel from the bottom side, remove the tray panel frontwards (**2**).



4. Remove the 6 screws from the front panel (**3**).
- NOTE : When pulling out the flat cable from the connector upwards.**



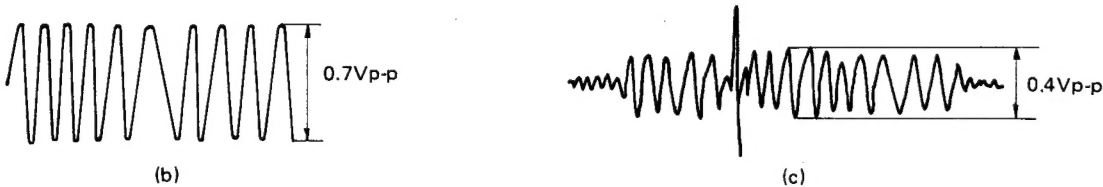
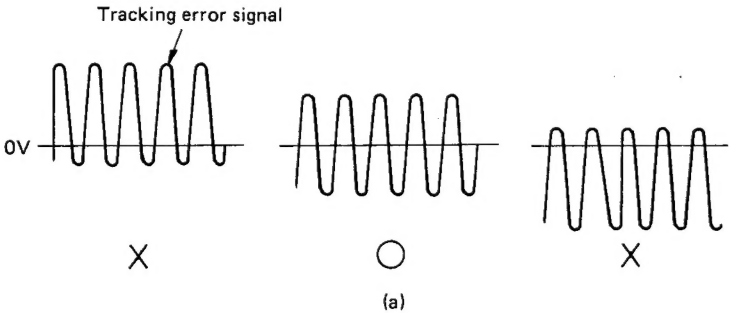
5. Remove the screw from the stopper for the tray (**4**).
6. Pull out the tray frontwards (**5**).
7. Remove the 4 screws from the mechanism ass'y (**6**).



ADJUSTMENT

Don't turn the trimming pots except R112.

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	Set the POWER switch to OFF. Turn the trimming pot R112 to the fully counterclockwise. Cut the jumper wire JW164 on the main pc board. Confirm to be removed the protecting short pin from the pick-up.						
2	LASER POWER		Laser power meter	POWER : ON	R112	Adjust R112 so that the meter reads 270μW.	
3	Set the POWER switch to OFF. Connect the jumper wire. (JW164)						
4	Remove the disc clamping, set the test disc (YEDS7 : SONY) and put the disc clamping on the test disc.						
5	FOCUS BALANCE	Test disc	Connect the oscilloscope (AC coupled, 0.2V/d, 0.5 μs/d) to TP9 and TP16 (GND)	PLAYBACK (TRACK No. 30)	R124	Adjust R124 so that maximum output.	
6	LASER POWER	Test disc	Same as above.	Same as above.	R112	Adjust R112 so that the amplitude of RF waveform is 1Vp-p.	
7	TRACKING ERROR OFFSET	Test disc	—	PLAYBACK (TRACK No. 30)	—	—	
8	Cut the jumper wire (JW197). Next cut the jumper wire (JW168). Be careful not to touch other parts : when cutting the jumper wires, don't cut the jumper wire JW168 until cutting the jumper wire JW197.						
9	TRACKING ERROR OFFSET	Test disc	Connect the oscilloscope to TP6 and TP5 (GND)	PLAYBACK	R726	Adjust R726 so that the waveform is the center of the oscilloscope.	(a)
10	Keep the connection and operation with above condition.						
11	TRACKING	Test disc	Connect the oscilloscope to TP6 and TP5 (GND)	PLAYBACK	R727	Adjust R727 so that the amplitude is 0.7Vp-p.	(b)
12	FOCUS	Test disc	Connect the oscilloscope to TP2.	PLAYBACK	R705	Adjust R705 so that the amplitude is 0.4Vp-p.	(c)
13	Set the POWER switch to OFF. Connect the jumper wires JW197 and JW168 respectively.						
14	OUTPUT OFFSET	—	Connect the DC voltmeter to TP13 (L ch) and TP12 (R ch)	POWER : ON	R507 (L ch) R508 (R ch)	Adjust R507, 508 so that meter reads 0V.	



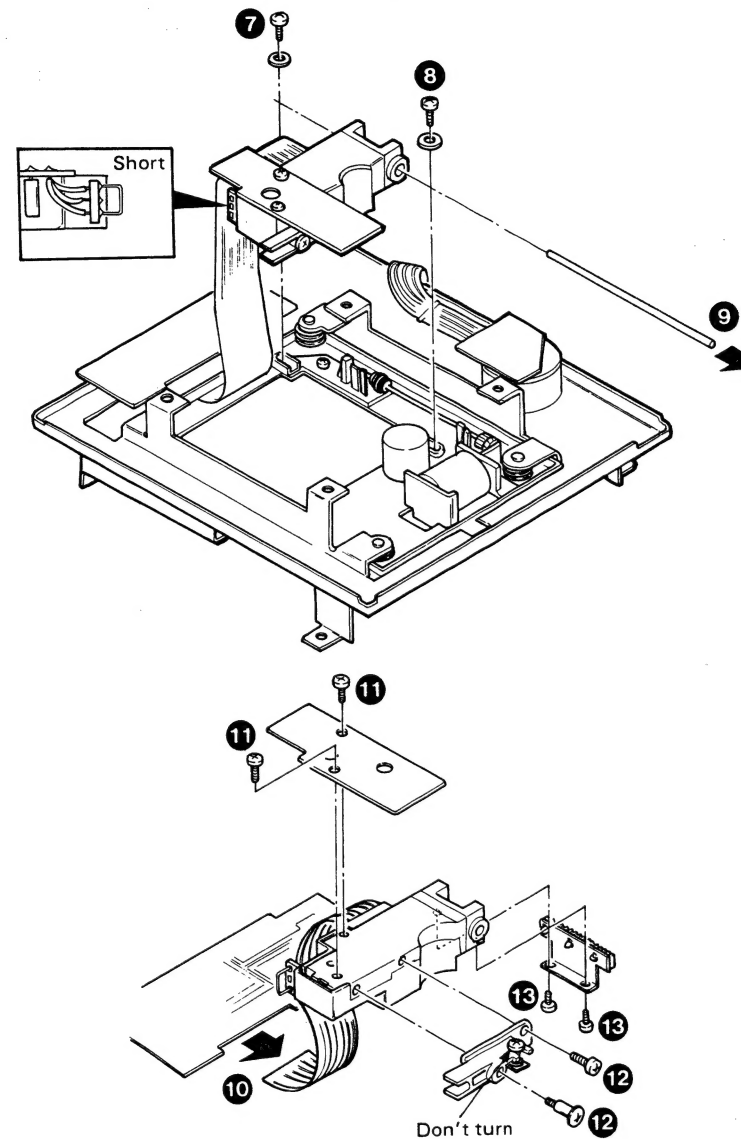
REGLAGE

Ne pas tourner les trimmers, à l'exception de R112.

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
1	Mettre l'interrupteur général sur OFF. Tourner le trimmer R112 tout à fait vers la gauche. Couper le cavalier JW164 sur la carte de circuits imprimés principale. S'assures que la broche protectrice de l'aiguille a été enlevée.						
2	PUISSANCE DE LASER		Mètre de puissance de laser	INTERRUPTEUR SECTEUR : FERME	R112 (carte de circuits imprimés de mécanisme)	Ajuster R112 pour que le mètre indique 270μW.	
3	Mettre l'interrupteur général sur OFF. Raccorder le cavalier (JW164).						
4	Enlever le serre-disque, régler le disque d'essai (YEDS7 : SONY) et poser le serre-disque sur le disque d'essai.						
5	EQUILIBRE FOCUS	Disque d'essai	Raccorder l'oscilloscope (à couplage c.a., 0.2V/d, 0.5μs/d) avec les bornes TP9 et TP16 (mise à la terre)	REPRODUCTION (piste no. 30)		Ajuster R124 de sorte à obtenir la sortie maximum.	
6	PUISSANCE DE LASER	Disque d'essai	Comme ci-dessus	Comme ci-dessus	R112	Ajuster R112 pour l'amplitude de la forme d'onde de RF soit de 1Vp-p.	
7	DECALAGE D'ERREUR DE PISTE	Disque d'essai	—	REPRODUCTION (piste no. 30)			
8	Couper le cavalier (JW197). Ensuite, couper le cavalier (JW168). Faire attention de ne pas toucher les autres pièces: ne jamais couper le cavalier JW168 avant de couper le cavalier JW197.						
9	DECALAGE D'ERREUR DE PISTE	Disque d'essai	Raccorder l'oscilloscope avec les bornes TP6 et TP5 (mise à la terre)	REPRODUCTION	R726	Ajuster R726 pour la forme d'onde se trouve au centre de l'oscilloscope.	(a)
10	Maintenir les connexions et l'opération comme décrit ci-dessus.						
11	RECHERCHE DE PISTE	Disque d'essai	Raccorder l'oscilloscope avec les bornes TP6 et TP5 (mise à la terre)	REPRODUCTION	R727	Ajuster R727 pour que l'amplitude soit de 0.7Vp-p.	(b)
12	FOCUS	Disque d'essai	Raccorder l'oscilloscope avec les bornes TP2.	REPRODUCTION	R705	Ajuster R705 pour que l'amplitude soit de 0.4Vp-p.	(c)
13	Mettre l'interrupteur général sur OFF. Raccorder les cavaliers JW197 respectivement JW168.						
14	DECALAGE DE SORTIE	—	Raccorder le voltmètre c.c. avec les bornes TP13 (canal gauche) et TP12 (canal droit).	INTERRUPTEUR SECTEUR : FERME	R507 (canal gauche) R508 (canal droit)	Ajuster R507, 508 pour que le voltmètre indique 0V.	

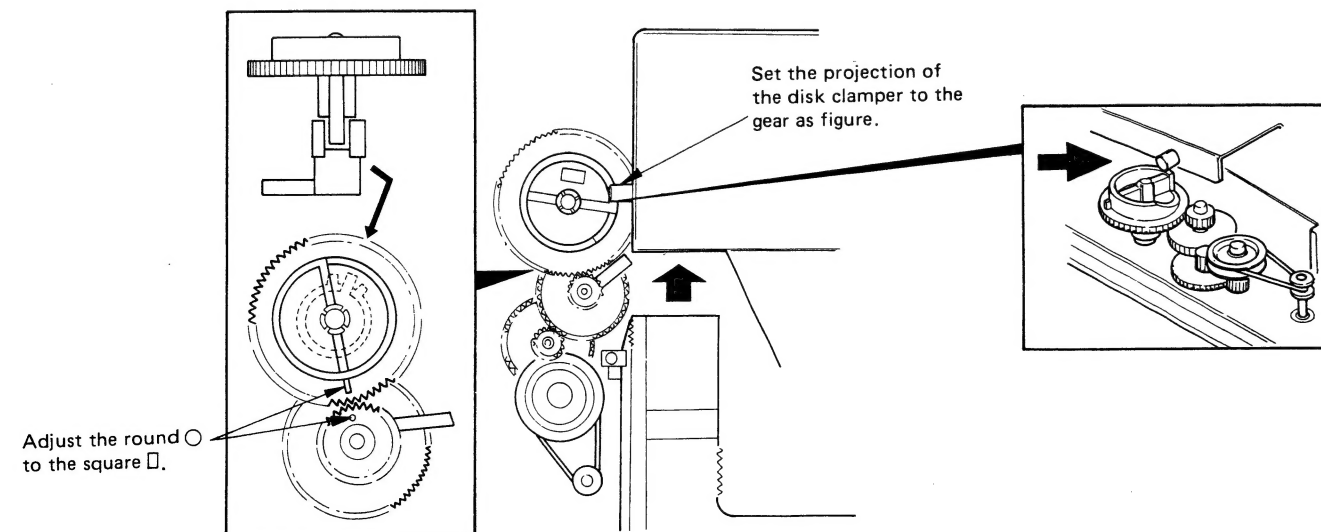
DISASSEMBLY FOR REPAIR

8. Remove the screw (7) and loose the screw (8).
Next pull out the shaft for the lazer pick-up (9).
NOTE : Short the red and the black leads of the lazer pick-up. (Important procedure)

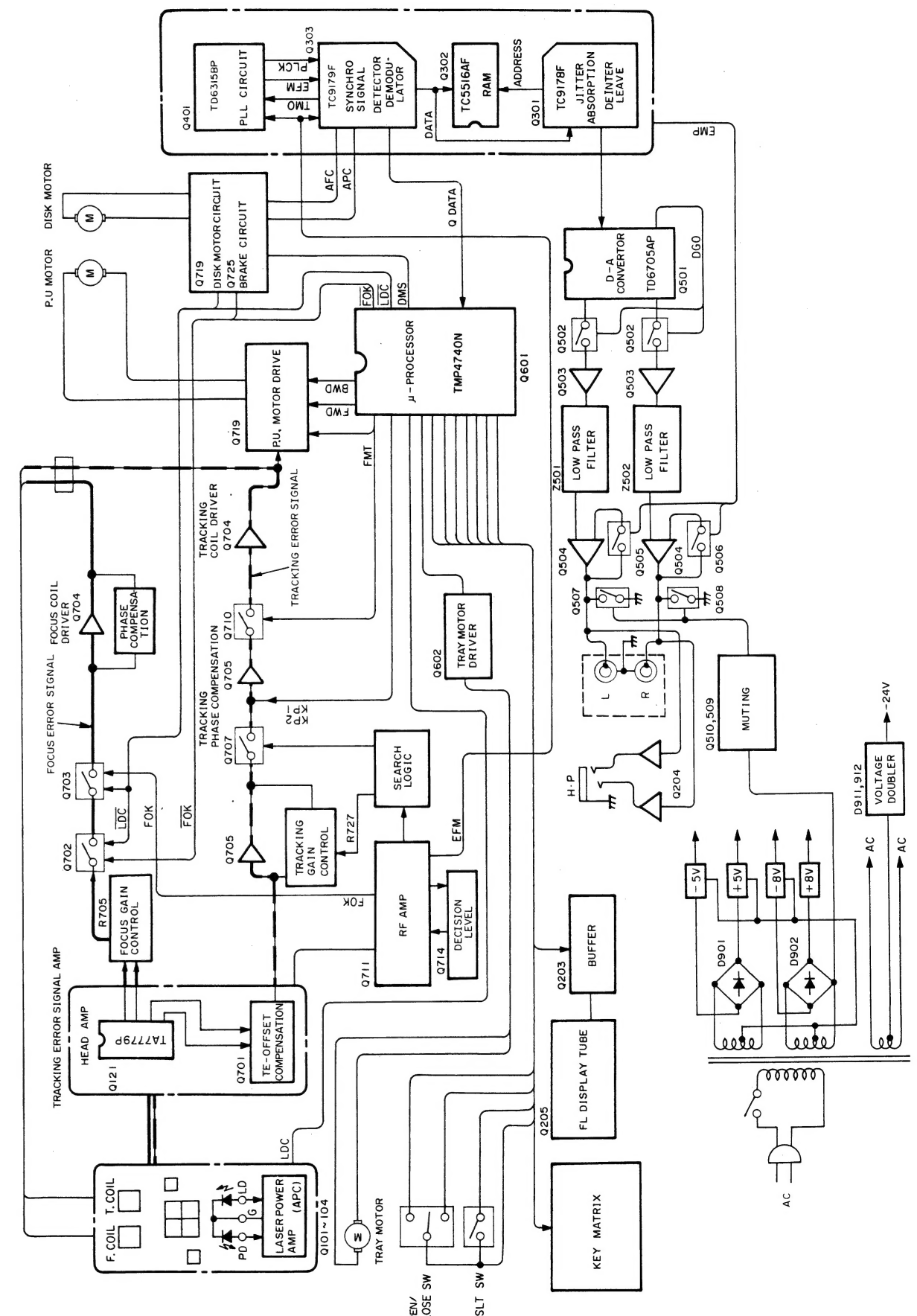


HOW TO SET GEARS' TIMING

Set the projection of the disk clamber to the gear as the figure.



BLOCK DIAGRAM

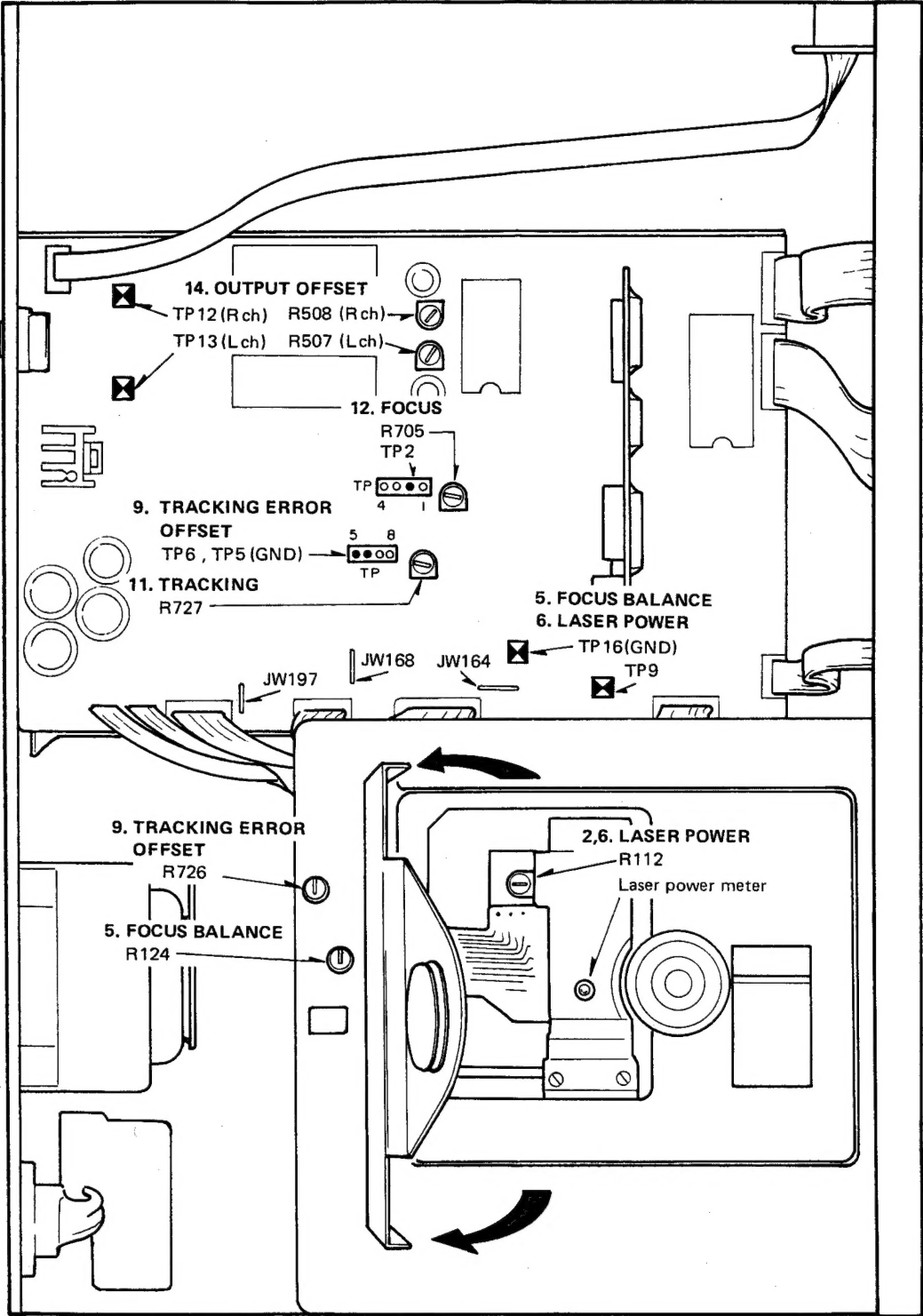


ABGLEICH

ADJUSTMENT/REGLAGE/ABGLEICH

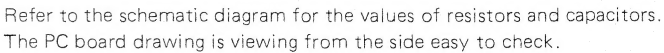
Mit Ausnahme von R112, sollten die Trimmer nicht gedreht werden.

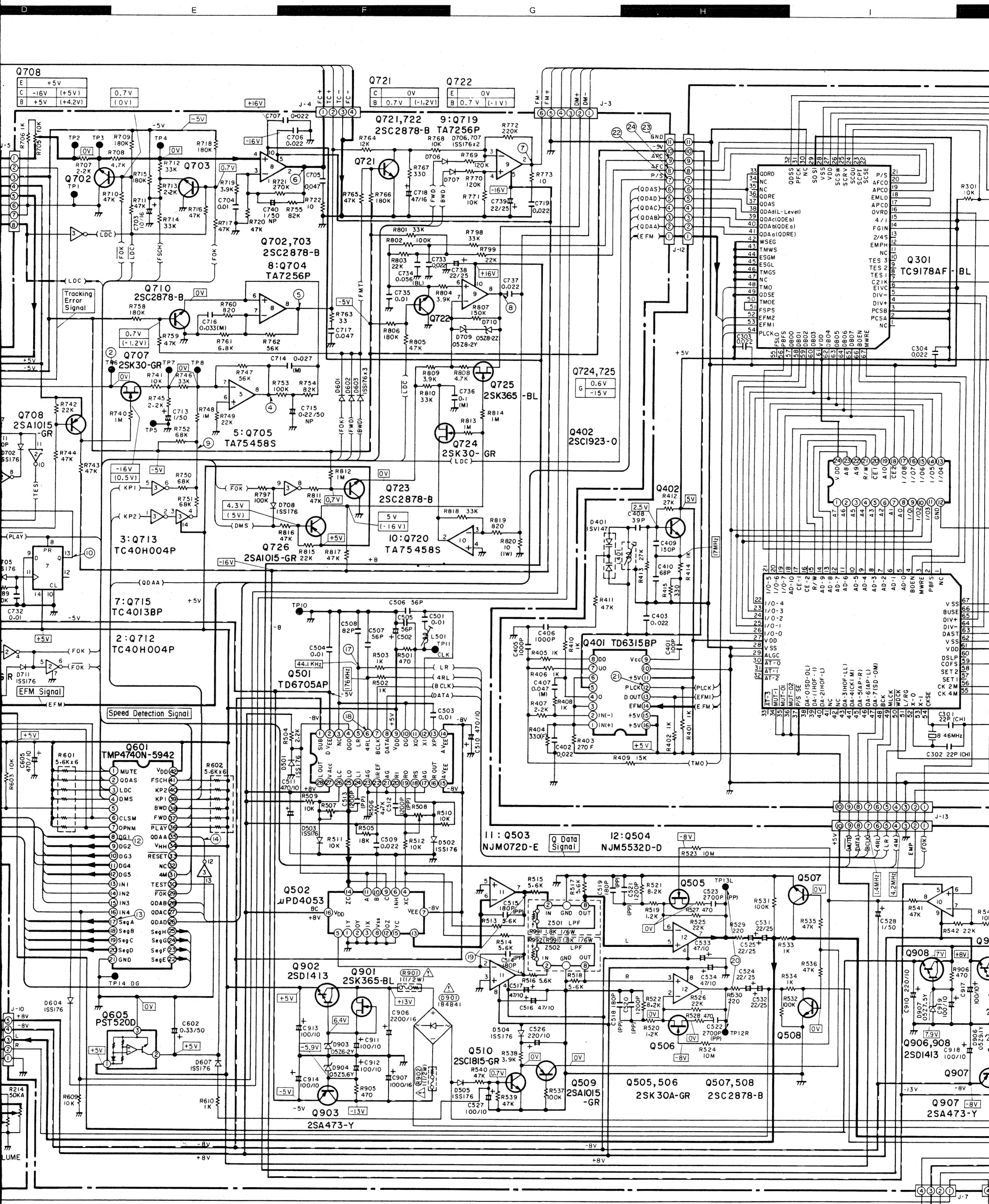
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
1	Den Leistungsschalter auf OFF einstellen. Den Trimmer R112 ganz nach links drehen. Den Schaltdraht JW164 auf der Hauptschaltungsplatte abtrennen. Sich vergewissern, daß der kurze Schutzstift der Nadel entfernt worden ist.						
2	LASERLEISTUNG		Laserleistungs-messer	NETZSCHALTER : EIN	R112 (Schal-tungsplatte für Mechanismus)	R112 so einstellen, daß der Messer 270µW anzeigt.	
3	Den Leistungsschalter auf OFF einstellen. Den Schaltdraht (JW164) anschließen.						
4	Die Plattenklemme entfernen, die Testplatte (YEDS7 : SONY) auflegen und die Plattenklemme auf die Testplatte legen.						
5	FOKUS AUSGLEICH	Testplatte	Den Oszilloskop (WS-gekoppelt, 0.2 V/d, 0.5µs/d) an die Klemmen TP9 und TP16 (Erdung) anschließen	WIEDERGABE (spur Nr. 30)	R124	R124 so einstellen, daß die maximale Ausgangsleistung erreicht wird	
6	LASERLEISTUNG	Testplatte	Wie oben	Wie oben	R112	R112 so einstellen, daß die Amplitude der Hoch-frequenz-Wellenform 1Vp-p entspricht	
7	SPURFEHLERVER-SETZUNG	Testplatte	—	WIEDERGABE (spur Nr. 30)	—	—	
8	Den Schaltdraht (JW197) abtrennen. Dann, den Schaltdraht (JW168) abtrennen. Darauf achten, daß die anderen Teile nicht berührt werden; nie den Schaltdraht JW168 vor dem Schaltdraht JW197 abtrennen.						
9	SPURFEHLERVER-SETZUNG	Testplatte	Den Oszilloskop an die Klemmen TP6 und TP5 (Erdung) anschließen.	WIEDERGABE	R726	R726 so einstellen, daß die Wellenform sich in der Mitte des Oszillographen befindet.	(a)
10	Die Anschlüsse und den Betrieb so beibehalten wie hier oben beschrieben.						
11	SPURFUHRUNG	Testplatte	Den Oszilloskop an die Klemmen TP6 und TP5 (Erdung) anschließen.	WIEDERGABE	R727	R727 so einstellen, daß die Amplitude gleich 0.7Vp-p ist.	(b)
12	FOKUS	Testplatte	Den Oszilloskop an die Klemmen TP2 anschließen.	WIEDERGABE	R705	R705 so einstellen, daß die Amplitude gleich 0.4Vp-p ist.	(c)
13	Den Leistungsschalter auf OFF einstellen. Den Schaltdraht JW197 bzw. JW168 anschließen.						
14	AUSGANGSVER-SETZUNG	—	Den Gleichstrom-Spannungsmesser an die Klemmen TP13 (linker Kanal) und TP12 (rechter Kanal) anschließen.	NETZSCHALTER : EIN	R507 (linker Kanal) R508 (rechter Kanal)	R507, 508 so einstellen, daß der Spannungsmesser 0V anzeigt.	



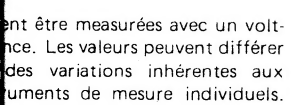
(Top view)

PC BOARD





• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.
 • Les tensions c.c. doivent être mesurées avec un volt-mètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
 • Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geräten u.U. geringfügig.

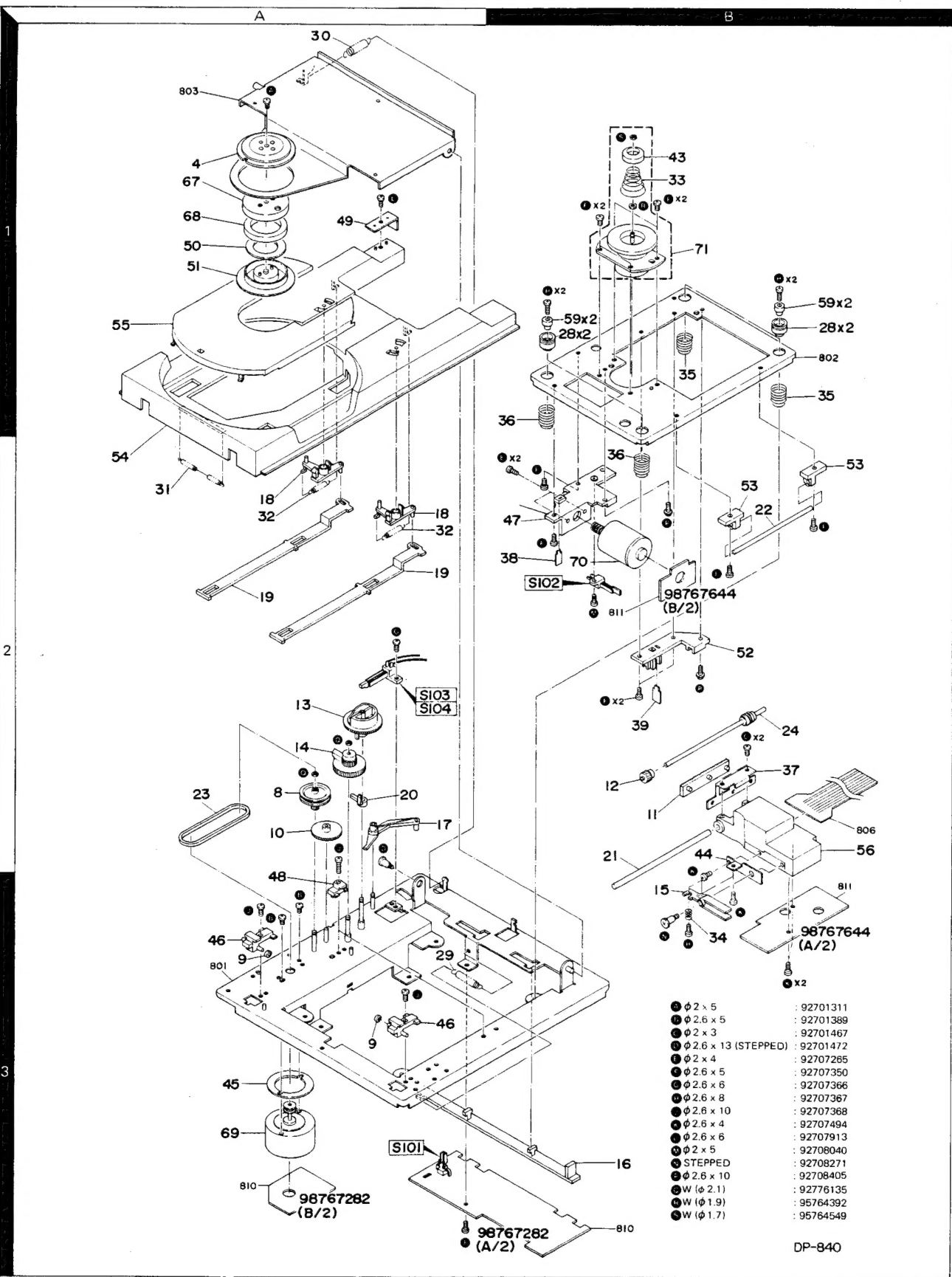


7

DP-840

DP-840

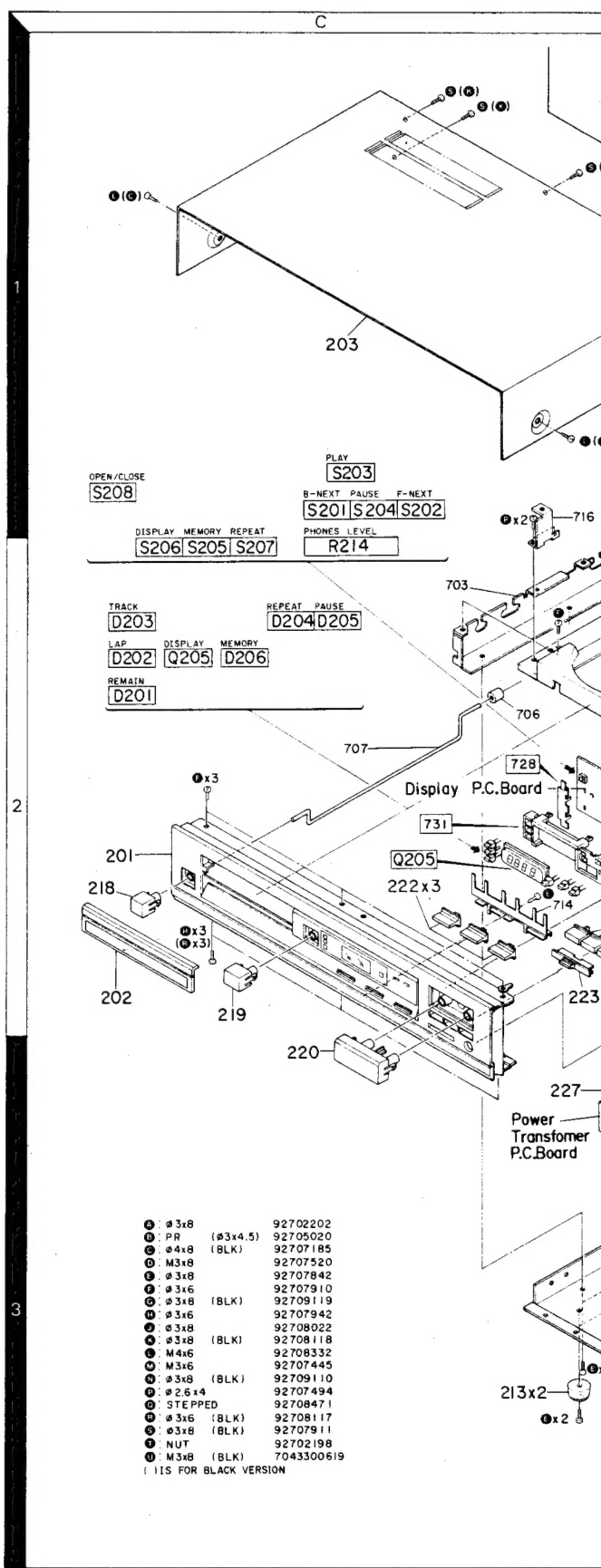
EXPLODED VIEW (MECHANISM)



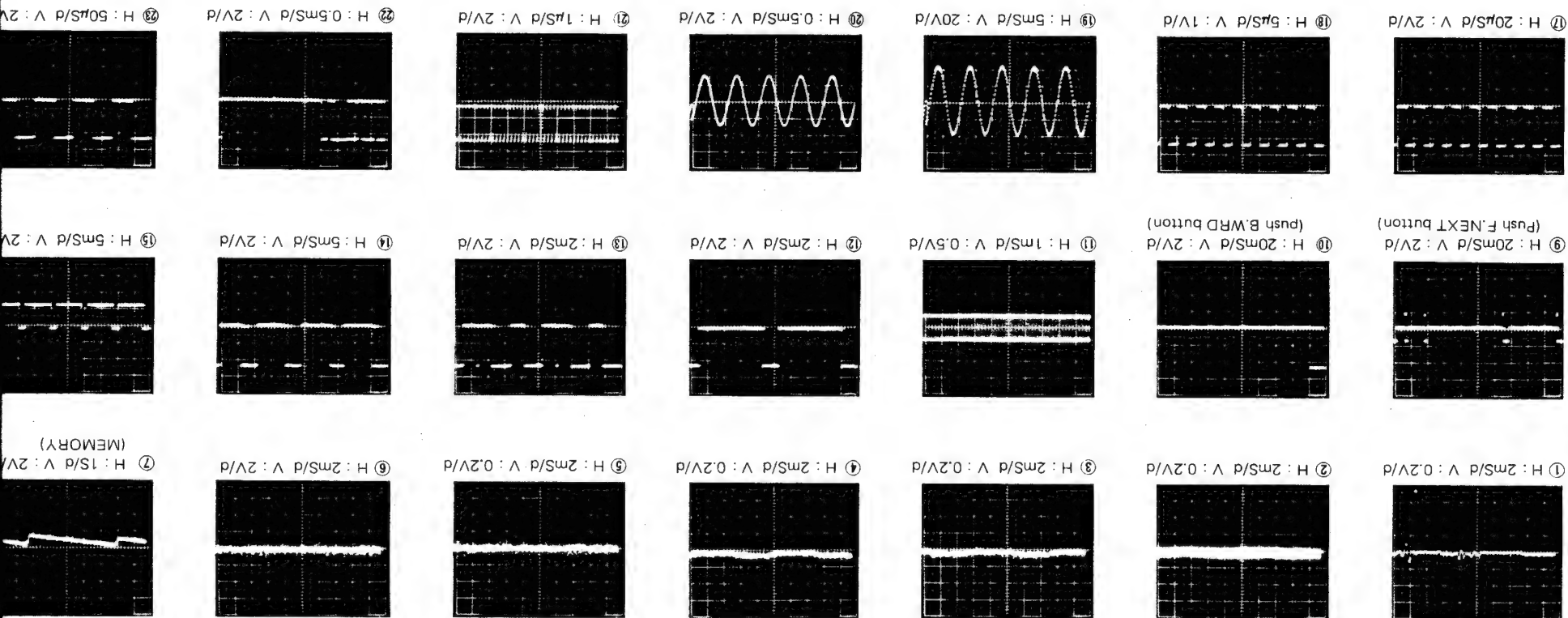
Parts with the exploded numbers larger than 700 are not supplied.

DISC PLAYER

EXPLODED VIEW (ELECTRONICS)

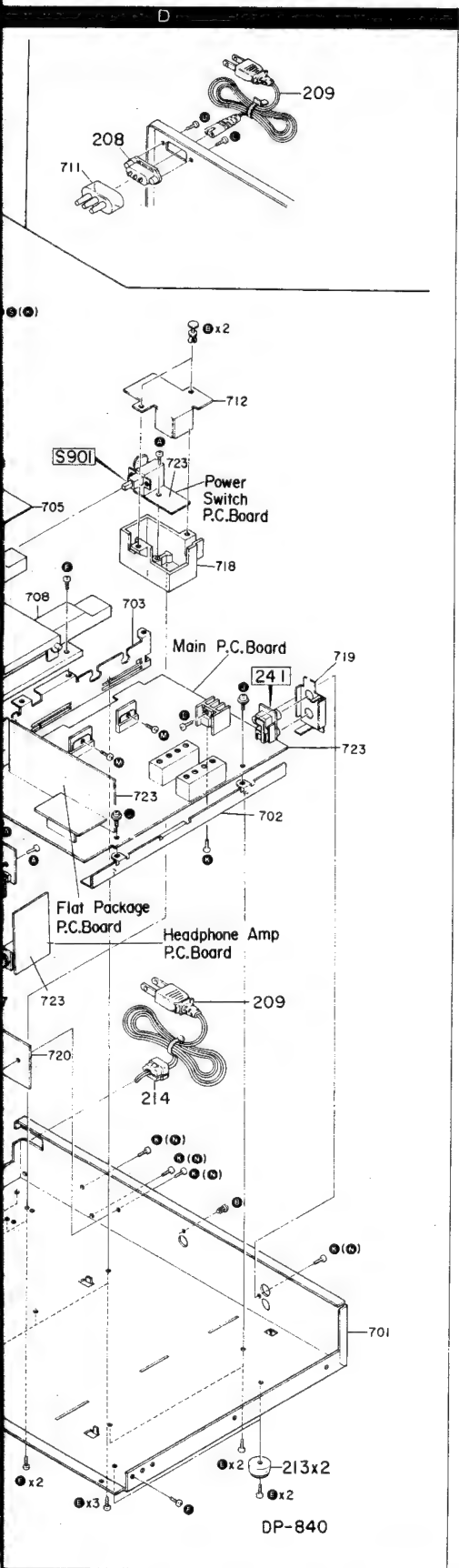


- ① 3x8 92702202
 - ② PR (3x4.5) 92705020
 - ③ 4x8 (BLK) 92707185
 - ④ M3x8 92707520
 - ⑤ 3x8 92707842
 - ⑥ 3x8 92707910
 - ⑦ 3x8 (BLK) 92709119
 - ⑧ 3x8 92707942
 - ⑨ 3x8 92708022
 - ⑩ 3x8 (BLK) 92708118
 - ⑪ M4x6 92708332
 - ⑫ M3x6 92707445
 - ⑬ 3x8 (BLK) 92709110
 - ⑭ 2.6x4 92707494
 - ⑮ STEPPED 92708471
 - ⑯ 3x6 (BLK) 92708117
 - ⑰ 3x8 (BLK) 92707911
 - ⑱ NUT 92702198
 - ⑲ M3x8 (BLK) 70433300619
- ① IS FOR BLACK VERSION



COM KENWOOD

DP-840 DP-840



PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
DP-840 (Silver)						
201	2C	*	90017278	PANEL ASSY	KM	
202	2C	*	90017276	PANEL ASSY (TRAY)		
203	1C	*	90823118	METALLIC CABINET		
-		*	92904479	INSTRUCTION MANUAL (ENGLISH)	K	
-		*	92904481	INSTRUCTION MANUAL (FRENCH)	M	
-		*	92957597	WARRANTY CARD	K	
207	1D		92164775	AUDIO CORD	M	
208	1D		92169037	AC INLET (3P)		
209	2D		92176645	AC POWER CORD		
209	1D		92176680	AC POWER CORD (INLET)	M	
-		*	92922399	ITEM CARTON BOX		
-		*	92936207	POLYSTYRENE FOAMED FIXTURE		
-		*	92936208	POLYSTYRENE FOAMED FIXTURE		
-			92941302	PROTECTION BAG		
-			92941312	PROTECTION BAG		
-		*	92941519	PROTECTION BAG	K	
213	3C, 3D		92874033	FOOT		
214	3D	*	95844322	POWER CORD BUSHING		
218	2C	*	90872130	KNØB (BUTTON) POWER		
219	2C	*	90872131	KNØB (BUTTON) OPEN/CLOSE		
220	2C	*	90872132	KNØB (BUTTON) PLAY		
221	2D	*	90872133	KNØB (BUTTON) PAUSE, B/F-NEXT		
222	2C	*	90872134	KNØB (BUTTON) DISP, MEM, REPEAT		
223	2C	*	90872135	KNØB (SLIDE) PHONES LEVEL	K	
227	3C	*	92224477	POWER TRANSFORMER		
227	3C	*	92224481	POWER TRANSFORMER		
A	1D, 2D		92702202	SCREW (Ø3X8) POWER PCB		
B	1D, 3D		92705020	PUSH RIVET (Ø3X4.5) POWER BOX		
D	2D		92707520	SCREW (M3X8) Ø902		
E	3C, 3D		92707842	SCREW (Ø3X8) BOTTOM PLATE		
F	2C, 2D		92707910	SCREW (Ø3X6) PANEL BOTTOM		
H	2C		92707942	SCREW (Ø3X6) PANEL TOP		
J	2D	*	92708022	SCREW (Ø3X8) MAIN PCB		
L	1C	*	92708332	SCREW (M4X6) METALLIC CABINET		
M	2D		92707445	SCREW (M3X6) Ø704, Ø719		
P	1C, 2D	*	92707494	SCREW (Ø2.6X4) MECHANISM ASSY		
Q	3D	*	92708471	STEPPED SCREW (FOR TRANSPORT)		
S	1C, 1D		92707911	SCREW (Ø3X8) METALLIC CABINET		
T	2D		92702198	NUT HEADPHONE JACK		
U	1D		7043300619	SCREW (M3X6) AC INLET	M	
DP-840 (Black)						
201	2C	*	90017273	PANEL ASSY	KPUM UEX	
201	2C	*	90017273	PANEL ASSY		
202	2C	*	90017276	PANEL ASSY (TRAY)		
203	1C	*	90823117	METALLIC CABINET	KPUM UEX T PM M	
-		*	92904479	INSTRUCTION MANUAL (ENGLISH)		
-		*	92904479	INSTRUCTION MANUAL (ENGLISH)		
-		*	92904480	INSTRUCTION MANUAL (ENGLISH)		
-		*	92904481	INSTRUCTION MANUAL (FRENCH)		
-		*	92904482	INSTRUCTION MANUAL (SPANISH)		

F: Scandinavia & Europe H: Audio Club K: USA P: Canada

S: South Africa T: England U: PX (Far East, Hawaii)

UE: AAFES (Europe) X: Australia M: Other Areas

⚠ indicates safety critical components.

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-			92957597	WARRANTY CARD	K	
-			92957599	WARRANTY CARD	UUE	
-			92957600	WARRANTY CARD	UUE	
-			92957601	WARRANTY CARD	X	
-			92957605	SERVICE STATIONS LIST	UUE	
-			92957606	CAUTION CARD	U	
-			92957607	CAUTION CARD	UUE	
-		*	92957732	WARRANTY CARD	P	
Δ 207	1D		92164775	AUDIO CORD		
Δ 208	1D		92169037	AC INLET (3P)	UUE	
Δ 209	2D		92176588	AC POWER CORD	X	
Δ 209	2D	*	92176628	AC POWER CORD	T	
Δ 209	2D		92176645	AC POWER CORD	KP	
Δ 209	1D		92176680	AC POWER CORD (INLET)	UUE	
-		*	92922400	ITEM CARTON BOX	KPUM	
-		*	92922400	ITEM CARTON BOX	UEXT	
-		*	92922401	ITEM CARTON BOX	T	
-		*	92936207	POLYSTYRENE FOAMED FIXTURE		
-		*	92936208	POLYSTYRENE FOAMED FIXTURE		
-			92941302	PROTECTION BAG		
-			92941312	PROTECTION BAG		
-		*	92941519	PROTECTION BAG		
Δ 213	3C, 3D		92874033	FOOT		
Δ 214	3D	*	95844322	POWER CORD BUSHING	KPX	
218	2C	*	90872116	KNOB (BUTTON) POWER		
219	2C	*	90872122	KNOB (BUTTON) OPEN/CLOSE		
220	2C	*	90872123	KNOB (BUTTON) PLAY	T	
220	2C	*	90872139	KNOB (BUTTON) PLAY	KPUM	
220	2C	*	90872139	KNOB (BUTTON) PLAY	UUE	
221	2D	*	90872124	KNOB (BUTTON) PAUSE, B/F-NEXT		
222	2C	*	90872125	KNOB (BUTTON) DISP, MEM, REPEAT		
223	2C	*	90872126	KNOB (SLIDE) PHONES LEVEL		
Δ 227	3C	*	92224477	POWER TRANSFORMER	KP	
Δ 227	3C	*	92224479	POWER TRANSFORMER	T	
Δ 227	3C	*	92224480	POWER TRANSFORMER	X	
Δ 227	3C	*	92224481	POWER TRANSFORMER	UUEM	
A	1D, 2D		92702202	SCREW (Ø3X8) POWER, DISP PCB		
B	1D, 3D		92705020	PUSH RIVET (Ø3X4.5) POWER BOX		
C	1C		92707185	SCREW (Ø4X8) BLK (METAL CABINET		
D	2D		92707520	SCREW (M3X8) Q702		
E	3C, 3D		92707842	SCREW (Ø3X8) BOTTOM PLATE		
F	2C, 2D		92707910	SCREW (Ø3X6) PANEL TOP		
J	2D	*	92708022	SCREW (Ø3X8) MAIN PCB		
K	2D, 3D		92708118	SCREW (Ø3X8) METALLIC CABINET		
M	2D		92707445	SCREW (M3X6) Q704, Q719		
N	3D	*	92709110	SCREW (Ø3X8) BLK (REAR PANEL)		
P	1C, 2D	*	92707494	SCREW (Ø2.6X4) MECHANISM ASSY		
Q	3D	*	92708471	STEPPED SCREW (FOR TRANSPORT)		
R	2C		92708117	SCREW (Ø3X6) BLK (PANEL BOTTOM)		
T	2D		92702198	NUT HEADPHONE JACK		
U	1D		7043300619	SCREW (M3X6) AC INLET		

E: Scandinavia & Europe H: Audio Club K: USA

P: Canada

S: South Africa

T: England

U: PX (Far East, Hawaii)

UUE: AAFES (Europe)

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DISPLAY (98767294)						
C201,202 C203,204			CC45SL1H100D 92488100	CERAMIC 10PF D ELECTRO 10UF 50WV		
R202		*	92540776	MULTI-COMP 5.6KX4 K		
R203		*	92540777	MULTI-COMP 47KX3 K		
R204		*	92540778	MULTI-COMP 47KX7 K		
R205		*	92540794	MULTI-COMP 56KX5 K		
R206		*	92540780	MULTI-COMP 56KX7 K		
R214	2D	*	92657351	POTENTIOMETER(50K) VOLUME		
S201-208	1C,2C		92196228	PUSH SWITCH (OPERATION KEY)		
D201-206 D208-215	2C	*	TLS208 1SS176	LED (REMAIN,LAP,TRACK ETC.) DIODE		
Q201			TC5066BP	IC(BUFFER X7)		
Q202			TC5067BP	IC(INV BUFFER X7)		
Q203			2SC1815NEW(GR)	TRANSISTOR		
Q204			TA75557S	IC(OP AMP X2)		
Q205	2C	*	92104629	FLUORESCENT INDICATOR TUBE		
MAIN (98767478)						
C301,302 C303,304			92360134 CK45F1H223Z	CERAMIC 22PF J CERAMIC 0.022UF Z		
C401			CC45SL1H101K	CERAMIC 100PF K		
C402,403			CK45F1H223Z	CERAMIC 0.022UF Z		
C405,406			CK45B1H102K	CERAMIC 1000PF K		
C407			CQ92M1H473K	MYLAR 0.047UF K		
C408			CC45SL1H390K	CERAMIC 39PF K		
C409			CC45SL1H151F	CERAMIC 150PF F		
C410			CC45SL1H680K	CERAMIC 68PF K		
Z301		*	92153355	CRYSTAL RESONATOR		
R403			92570693	RN 270 F 1/4W		
R404			92570694	RN 330 F 1/4W		
Q301			TC9178AF	IC(SYNC SEPA,EFM SIGNAL MPX)		
Q302			TC5516AF	IC(16K RAM)		
Q303			TC9179F	IC(ERROR DETECTOR/CORRECTOR)		
Q401		*	TD6315BP	IC(DATA SEPA CLK PULSE GEN PLL)		
Q402			2SC1923(B)	TRANSISTOR		
C501			CK45F1H103Z	CERAMIC 0.010UF Z		
C502			92483101	ELECTRO 100UF 10WV		
C503,504			CK45F1H103Z	CERAMIC 0.010UF Z		
C505-507			CC45SL1H560K	CERAMIC 56PF K		
C508			CC45SL1H820K	CERAMIC 82PF K		
C509			CK45F1H223Z	CERAMIC 0.022UF Z		
C510,511			92483471	ELECTRO 470UF 10WV		
C512,513			92321058	POLYPRO 0.0012UF J		
C514,515			92321084	POLYPRO 180PF J		
C516,517			92483470	ELECTRO 47UF 10WV		
C518,519			92321084	POLYPRO 180PF J		
C520,521			92321058	POLYPRO 0.0012UF J		
C522,523			92321062	POLYPRO 0.0027UF J		
C524,525			92486220	ELECTRO 22UF 25WV		
C526			92483221	ELECTRO 220UF 10WV		

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C527 C528 C529,530 C531,532 C533,534			92483101 92488109 92321061 92486220 92483470	ELECTR0 100UF 10WV ELECTR0 1UF 50WV POLYPR0 0.0022UF J ELECTR0 22UF 25WV ELECTR0 47UF 10WV		
C601 C602 C603,604 C605 C703			92483470 92488338 CK45F1H223Z 92483471 92485100	ELECTR0 47UF 10WV ELECTR0 0.33UF 50WV CERAMIC 0.022UF Z ELECTR0 470UF 10WV ELECTR0 10UF 16WV		
C704 C705 C706,707 C710-712 C713			CK45B1H103K 92360484 CK45F1H223Z CK45B1H102K 92488109	CERAMIC 0.010UF K CERAMIC 0.047UF Z CERAMIC 0.022UF Z CERAMIC 1000PF K ELECTR0 1UF 50WV		
C714 C715 C716 C717 C718			CQ92M1H273J CE04BP1H228M CQ92M1H333J 92360484 92485470	MYLAR 0.027UF J NP-ELEC 0.22UF 50WV MYLAR 0.033UF J CERAMIC 0.047UF Z ELECTR0 47UF 16WV		
C719 C720 C721 C722 C723			CK45F1H223Z 92488109 92483101 CC45SL1H150K CQ92M1H182J	CERAMIC 0.022UF Z ELECTR0 1UF 50WV ELECTR0 100UF 10WV CERAMIC 15PF K MYLAR 1800PF J		
C724 C725 C726 C727 C728,729			92485100 CK45B1H471K CK45F1H223Z 92488479 CK45F1H223Z	ELECTR0 10UF 16WV CERAMIC 470PF K CERAMIC 0.022UF Z ELECTR0 4.7UF 50WV CERAMIC 0.022UF Z		
C730 C731 C732 C733 C734			CK45B1H471K CK45B1H392K CK45B1H103K CK45F1H223Z 92360553	CERAMIC 470PF K CERAMIC 3900PF K CERAMIC 0.010UF K CERAMIC 0.022UF Z CERAMIC 0.056UF K		
C735 C736 C737 C738,739 C740			CK45F1H103Z CQ92M1H104J CK45F1H223Z 92486220 CE04BP1H109M	CERAMIC 0.010UF Z MYLAR 0.10UF J CERAMIC 0.022UF Z ELECTR0 22UF 25WV NP-ELEC 1.0UF 50WV		
△ C901 △ C901 C902,903 C904 C905			92340150 92340205 CK45F1H103Z CK45F1H103Z CK45F1H103Z	CERAMIC 4700PF P CERAMIC 4700PF M CERAMIC 0.010UF Z CERAMIC 0.010UF Z CERAMIC 0.010UF Z	UUEMX	
C906 C907 C908,909 C910 C911-918			92485222 92485102 92486222 92483221 92483101	ELECTR0 2200UF 16WV ELECTR0 1000UF 16WV ELECTR0 2200UF 25WV ELECTR0 220UF 10WV ELECTR0 100UF 10WV		
C919 C920 C921			92483101 92488101 92486101	ELECTR0 100UF 10WV ELECTR0 100UF 50WV ELECTR0 100UF 25WV		
241	2D		92198012	PHONE JACK (2P) OUTPUT		

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242	2D		92198062	PHONE JACK (3P) HEADPHONE		
L401			92245445	COIL		
L501		*	92295127	COIL		
Z501, 502		*	92137770	FILTER		
R507, 508		*	92658826	TRIM POT. (10K) OUTPUT OFFSET		
R601, 602		*	92540781	MULTI-COMP 5.6KX5		
R607			RD14882H3R3J	RD 3.3 J 1/2W		
R705		*	92658826	TRIMMING POT. (10K) FOCUS GAIN		
R726		*	92658827	TRIMMING POT. (20K) TRACK ERROR		
R727		*	92658826	TRIMMING POT. (10K) TRACK GAIN		
R820		*	92570432	RS 10 J 1W		
R821		*	92500333	JUMPER R 0 OHM		
Δ R901-904			92500201	FUSE RESIST 1 J 1/2W		
Δ S901	1D		92196362	PUSH SWITCH (POWER)		
D401			15V147	DIODE		
D501-505			1SS176	DIODE		
D601-607			1SS176	DIODE		
D701-708			1SS176	DIODE		
D709			05Z8.2Y	ZENER DIODE		
D710		*	05Z8.2Z	ZENER DIODE		
D711			1SS176	DIODE		
Δ D901, 902			1B4B41	DIODE		
D903			05Z6.2Y	ZENER DIODE		
D904			05Z5.6Y	ZENER DIODE		
D905, 906			05Z9.1Y	ZENER DIODE		
D907		*	05Z7.5Y	ZENER DIODE		
D910			05Z24(Y)	ZENER DIODE		
D911, 912			1SS176	DIODE		
Q501			TD6705AP	IC(16-BIT D/A CONVERTER)		
Q502			TC4053BP	IC(3-INPUT 2CH MPX/DE-MPX)		
Q502			UPD4053BC	IC(3-INPUT 2CH MPX/DE-MPX)		
Q503		*	NJM072D(E)	IC(OP AMP X2)		
Q504			NJM5532D	IC(OP AMP X2)		
Q505, 506			2SK30A-TM(GR)	FET		
Q507, 508			2SC2878(B)	TRANSISTOR		
Q509			2SA1015(GR)	TRANSISTOR		
Q510			2SC1815NEW(GR)	TRANSISTOR		
Q601		*	TMP4740N-5942	IC(MICROPROCESSOR)		
Q602			TA7354P	IC(MOTOR DRIVER)		
Q603			2SC1815N(GR)	TRANSISTOR		
Q604			2SA1015(GR)	TRANSISTOR		
Q605		*	PST520D	IC(LOW POWER RESET)		
Q702, 703			2SC2878(B)	TRANSISTOR		
Q704			TA7256P	IC(OP AMP X2)		
Q705			TA75458S	IC(OP AMP X2)		
Q706			2SC2878(B)	TRANSISTOR		
Q707			2SK30A-TM(GR)	FET		
Q708			2SA1015(GR)	TRANSISTOR		
Q710			2SC2878(B)	TRANSISTOR		
Q711-713			TC40H004P	IC(INV BUFFER/CONVERTER X6)		
Q714			TA75458S	IC(OP AMP X2)		
Q715			TC4013BP	IC(D FLIP-FLIP X2)		
Q716			2SA1015(GR)	TRANSISTOR		

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Q717 Q718 Q719 Q720 Q721-723			2SC1815N(GR) 2SC1815NEW(GR) TA7256P TA75458S 2SC2878(B)	TRANSISTOR TRANSISTOR IC(OP AMP X2) IC(OP AMP X2) TRANSISTOR		
Q724 Q725 Q726 Q901 Q902		*	2SK30A-TM(GR) 2SK365(BL) 2SA1015(GR) 2SK365(BL) 2SD1413	FET FET TRANSISTOR FET TRANSISTOR		
Q903 Q904,905 Q906 Q907 Q908		*	2SA473(Y) 2SK365(BL) 2SD1413 2SA473(Y) 2SD1413	TRANSISTOR FET TRANSISTOR TRANSISTOR TRANSISTOR		
MECHANISM PCB (98767282)						
C101,102 C103 C106 C121 C122,123			92440444 CK45F1H103Z 92483101 CK45F1H223Z 92360331	ELECTRO 10UF 16WV CERAMIC 0.010UF Z ELECTRO 100UF 10WV CERAMIC 0.022UF Z CERAMIC 0.047UF M		
C701,702 C708,709			CK45B1H471K CK45B1H102K	CERAMIC 470PF K CERAMIC 1000PF K		
R112 R124		*	92658761 92658827	TRIMMING PNT. (10K) LASER POWER TRIMMING PNT. (20K) LASER POWER		
D101,102 D104 Q101 Q102-104 Q121		*	1SS176 05Z3,3(Y) 2SA966(Y) 2SC1815NEW(GR) TA7779P	DIODE DIODE TRANSISTOR TRANSISTOR IC(HEAD AMP FOR 3-BEAM PICK-UP)		
Q701			TA75458S	IC(OP AMP X2)		
MECHANISM ASS'Y (92900237)						
4	1A	*	90754201	CAP (CLAMPER)		
8	2A		90727083	PULLEY (DRIVE GEAR A)		
9	3A	*	90727119	ROLLER (A)		
10	2A	*	90727125	GEAR (LOADING B)		
11	2B	*	90727127	GEAR (RACK)		
12	2B	*	90727130	GEAR (BIVEL)		
13	2A	*	90727134	GEAR (CAM)		
14	2A	*	90727135	GEAR (DRIVE)		
15	3B	*	90754207	LEVER (GUIDE)		
16	3B	*	90754216	SLIDER (LIFT)		
17	2A	*	90754217	LEVER (LIFT)		
18	2A	*	90754218	LEVER (TRAY)		
19	2A	*	90754220	SLIDER (TRAY)		
20	2A	*	90758038	COUPLING (CAM)		
21	3B	*	90764197	SHAFT A (GUIDE A)		
22	2B	*	90764198	SHAFT B (GUIDE B)		
23	2A	*	95759027	BELT (DRIVE)		
24	2B	*	95791905	SHAFT ASSY (DRIVE)		
28	1B	*	95761530	CUSHION		
29	3A		95776669	SPRING (LIFT SLIDER)		

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30	1A	*	95776824	SPRING (CLAMP LIFTER)		
31	2A	*	95776854	SPRING (TRAY)		
32	2A	*	95776855	SPRING (TRAY LEVER)		
33	1B		95777270	SPRING (DISK MOTOR)		
34	3B	*	95777425	SPRING (PICK-UP GUIDE LEVER)		
35	1B	*	95777426	SPRING A (MECH CHASSIS/REAR)		
36	1B,2B	*	95777427	SPRING B (MECH CHASSIS/FRONT)		
37	2B	*	95779510	SPRING (RACK)		
38	2B	*	95779511	SPRING (DRIVE MOTOR)		
39	2B	*	95779512	SPRING (DRIVE)		
43	1B	*	90723146	RING (CENTER)		
44	3B	*	90743163	MOUNTING HARDWARE (GUIDE)		
45	3A	*	90748172	SPACER (LOADING MOTOR)		
46	3A	*	90748223	MOUNTING HARDWARE (ROLLER A)		
47	2B	*	90748230	MOUNTING HARDWARE (DRIVE MOTOR)		
48	3A	*	90748246	GUIDE (TRAY)		
49	1A	*	90748247	MOUNTING HARDWARE (STOPPER)		
50	1A	*	90748257	SPACER (MAGNET)		
51	1A		90754091	CLAMPER		
52	2B	*	90776142	HOLDER (SHAFT A)		
53	2B	*	90776143	HOLDER (SHAFT B)		
54	2A	*	90778190	TRAY (DISK)		
55	1A	*	90778191	TRAY (SUB)		
56	3B	*	92155211	LASER PICK-UP		
59	1B	*	92708378	SPACER (MECHANISM CUSHION)		
A	1A		92701311	SCREW (Ø2X5)		
B	3A		92701389	SCREW (Ø2.6X3)		
C	2B	*	92701467	SCREW (Ø2X3)		
D	2A,3A		92701472	SCREW (Ø2.6X13)		
E	2B		92707265	SCREW (Ø2X4)		
F	1B,2B		92707350	SCREW (Ø2.6X5)		
G	2A		92707366	SCREW (Ø2.6X6)		
H	1B,3B		92707367	SCREW (Ø2.6X8)		
J	3A		92707368	SCREW (Ø2.6X10)		
K	3B	*	92707494	SCREW (Ø2.6X4)		
L	1A		92707913	SCREW (Ø2.6X6)		
M	2B		92708040	SCREW (Ø2X5)		
N	3B	*	92708271	SCREW (MECHANISM HOLDER)		
P	2B	*	92708405	SCREW (Ø2.6X10)		
Q	2A		90776135	WASHER (Ø2.1)		
R	1B		95764392	WASHER (Ø1.9)		
S	1B		95764549	WASHER (Ø1.7)		
S101	3A	*	92196637	LEAF SWITCH (LASER DIODE)		
S102	2B	*	92196597	LEAF SWITCH		
S103,104	2A	*	92196598	LEAF SWITCH (OPEN/CLOSE LIMIT)		
67	1A		90748088	Yoke (CLAMPER)		
68	1A		90754089	MAGNET		
69	3A	*	95791944	MOTOR ASSY (LOADING)		
70	2B	*	95791945	MOTOR ASSY (DRIVE)		
71	1B	*	95791946	MOTOR ASSY (DISK)		

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SPECIFICATIONS

Number of channels	2 channels
Frequency response	5Hz — 20kHz, + 0.5dB — 0.5dB
Dynamic range	96dB
Total harmonic distortion	0.003% at 1kHz
Channel separation	90dB at 1kHz
Wow & flutter	Unmeasurable limit
Line output level	2.0V
Headphones output level/impedance	25mW/32 ohms
Spindle speed	500~200 rpm (CLV)
Quantization	16 bits linear 1 channel
Sampling Frequency	44.1kHz
Channel modulation code	EFM (eight to fourteen modulation)
Pick up type	Optical pick up
Laser type	Semiconductor laser
Power requirement	120V, 60Hz USA & Canada models, 220V, 50Hz European models, 240V, 50Hz Australia and U.K. models 120V/220—240V, 50/60Hz (Switchable) . . . Other countries
Power consumptions	14W
Dimensions	W 420 mm (16-9/16") H 84 mm (3-7/16") D 309 mm (12-3/16")
Weight	4.8 kg (10.6lb)
Supplied accessories	Connection cables

Note: —
We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note :
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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